BOSCH
Invented for life

DiBos Micro Digital Video Recorders - Version 8 (AMEC)

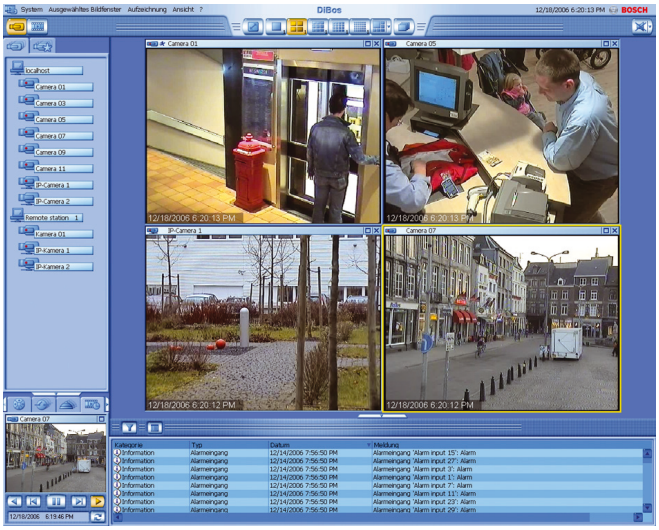
- **Hybrid analog/IP MPEG4 digital video recorder**
- **Models for 6 and 12 analog cameras and up to 8 additional network cameras/video encoders**
- **View/record video at CIF/2CIF/4CIF resolution**
- **Web-browser remote access and viewing**
- **Camera tamper detection**
- **Control cameras and AutoDomes with Biphase or Bilinx**
- **DVD writer for exporting video clips**
- **Interfacing to Bosch alarm panels**

DiBos uses Bosch's proven state of the art digital recording and communications technology and takes video surveillance to a new level. It is an integral part of overall security solutions for a wide range of applications – including banks, large retailers, railway stations, airports, city centers, industrial facilities, and office buildings. Customers can retrieve vital images and share information faster than ever before. They can better assess critical situations and take action immediately. Whether they're on site or at a remote network location, authorized personnel have quick, convenient access to information so they can operate more effectively and efficiently.
DiBos supports live viewing and recording at resolutions up to 4CIF. Users can store images at up to 450/375 ips (NTSC/PAL) on 30 composite video inputs. As many as 10 audio data streams can also be recorded on 30 video channels units.
Users can connect up to 32 additional IP video sources. This includes support for Bosch IP cameras (Dinion IP and AutoDome IP), Bosch MPEG4 network video encoders (VideoJet and VIP X Series), as well as JPEG images from numerous network camera manufacturers. DiBos can store up to 30/25 ips per attached network video device.

The system offers advanced features for viewing and very high flexibility in recording and image access. The real power of DiBos is fast, convenient accessibility to images and information. If required, accessibility to images and information is possible round the clock and everywhere all over the world. Communication and access to DiBos is possible via private or public networks. For these purposes the system can be connected to a variety of peripheral devices and systems.
The unique, scalable GUI allows live and recorded images from multiple remote systems to be viewed from a single PC or another DiBos. With this powerful tool, security managers can monitor and supervise various locations simultaneously.
Cameras and viewing modes can be programmed or selected manually. Each camera offers in-window pan/tilt/zoom functionality from local or remote facilities. Images are displayed with date/time, location, camera name and status of connected devices such as detectors and sensors. DiBos can be programmed to respond to specific situations and events automatically. Minimal human intervention is necessary.
In response to alarms, the system can be programmed to transmit images or messages to security personnel or security control center.
Playback is easy thanks to familiar search and navigation functions in a tree structure. Images can be accessed locally or remotely via a company network or the Internet. The customer can select multiple different views from up to 30 cameras.

Fast, powerful image search functions eliminate time-consuming manual searches. Functions include search for image changes, search for criteria such as camera number and recording date/time.
To ensure high security, all access is controlled by user authorization. Profiles are assigned by the system administrator. Events, such as login, logoff, status changes, image transmission, and system shutdown are stored in a database. Video authentication is built in to ensure that DiBos images are not altered in any way.
Various storage devices – such as external disk arrays, RAID and NAS devices, and external disk drives – may be used for export and backup of images.
DiBos supports Bilinx for pan/tilt/zoom and camera configuration via the video coax cable.
The configuration wizard makes installation quick and easy.
DiBos serial ports can be connected to Bosch alarm panels and Allegiant matrices.

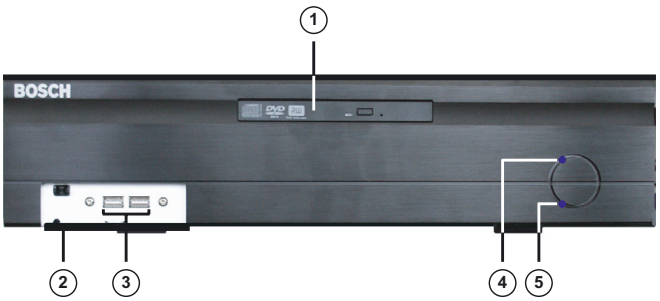
Live mode



Playback mode

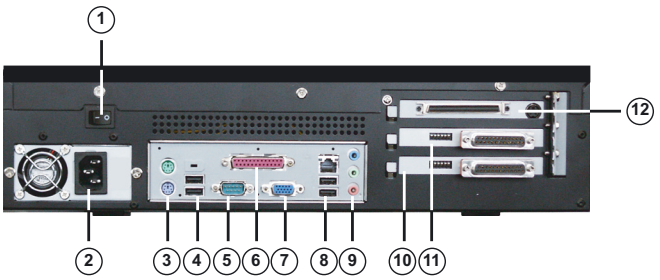
Installation/Configuration Notes

Front view:



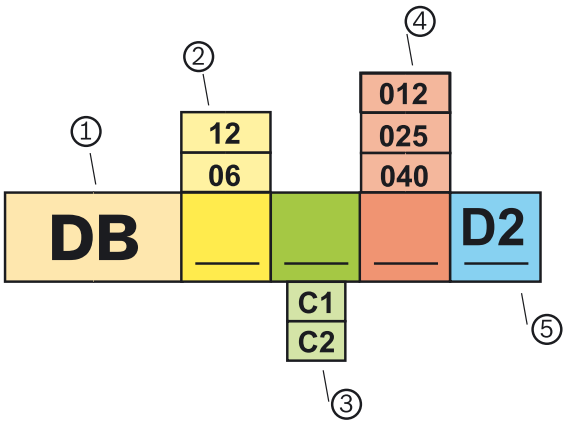
1	CD/DVD writer	**4**	Control lamp: System is switched on
2	Front covering (opened with one push on the cover)	**5**	Control lamp: Hard disk access
3	2x USB 2.0		

Rear view:



1	On/Off switch	**7**	VGA-Monitor
2	Mains connection 100 / 240 VAC, 50 / 60 Hz (automatic switchover)	**8**	Ethernet (RJ45) 2x USB 2.0
3	Mouse (green) Keyboard (purple)	**9**	Line In (blue) Speaker Out (green) Microphone In (red), Mono
4	2x USB 2.0	**10**	Grabber 1 (camera 1 - 6)
5	Serial port COM1	**11**	Grabber 2 (camera 7 - 12)
6	Parallel interface (Dongle must be plugged in)	**12**	I/O card with plug for connecting the alarm inputs, relay outputs and Biphase and plug for video monitor A and video monitor B

Ordering information:



1 Type DiBos Micro

2 Number of analog camera inputs

3 C1 version with max. 6 camera inputs and 120, 250, 400 GB
C2 version with max. 12 camera inputs and 250, 400 GB

4 Disk size (x10 GB)

5 Version

E. g. : **DB 12 C2 040 D2**
12 channel DiBos Micro with 400 GB storage

Technical Specifications

Electrical

Compression Method	MPEG4
Camera Inputs (analog)	1 connection cable with 6 BNC connectors (DB 06) or 2 connection cables ,each with 12 BNC connectors (DB 12) BNC connectors
Camera Inputs (IP)	8 video/audio MPEG4 data streams from Bosch/VCS network or JPEG devices
Composite video signal	1 Vpp, 75 Ohm
Recording resolution (analog inputs)	PAL: 704 x 576 (4CIF), 704 x 288 Pixel (2CIF), 352 x 288 Pixel (CIF) NTSC: 704 x 480 (4CIF), 704 x 240 Pixel (2CIF), 352 x 240 Pixel (CIF)
Recording resolution (IP inputs - Bosch IP devices)	PAL: 704 x 576 (4CIF/D1), 704 x 288 (2CIF), 464 x 576 (2/3 D1), 352 x 576 (1/2 D1), 352 x 288 (CIF), 176 x144 (QCIF) NTSC: 704 x 480 (4CIF/D1), 704 x 240 (2CIF), 464 x 480 (2/3 D1), 352 x 480 (1/2 D1), 352 x 240 (CIF), 176 x120 (QCIF)

Recording rates (analog) for DiBos Micro models	IPS CIF (PAL)	IPS CIF (NTSC)	IPS 2CIF (PAL)	IPS 2CIF (NTSC)
DB 06 C1 xxx D2	75	90	50	60
DB 12 C2 xxx D2	150	180	100	120

Recording rates (analog) for DiBos Micro models	IPS 4CIF (PAL)	IPS 4CIF (NTSC)
DB 06 C1 xxx D2	25	30
DB 12 C2 xxx D2	50	60

Recording rates per channel (video inputs analog)	PAL: 0,5; 1; 2; 3; 4; 5; 6; 8; 12,5; 25 ips NTSC: 0,5; 1; 2; 3; 5; 6; 7,5; 10; 15; 30 ips
Image size (video inputs analog)	Configurable from approx. 1.5 kB to 30 kB
Maximum data input rate (analog and IP)	50 Mbit per second
Recording rates per channel (video inputs IP)	PAL: 0,5; 1; 2; 3; 4; 5; 6; 8; 12,5; 25 ips NTSC: 0,5; 1; 2; 3; 5; 6; 7,5; 10; 15; 30 ips
Image size (video inputs IP)	Configurable bit streams up to 3 MBit per camera

Supported single channel encoders Bosch VideoJet Series and Bosch VIP Series	VJ10S, VJ 1000 VIP X1, VIP 10
Supported multi channel encoders Bosch VideoJet Series and Bosch VIP Series	VJ 8004, VJ 8004A VJ 8008, VJ 8008A VIP X2, VIP X2A VIP X1600
Supported Bosch IP cameras	Dinion IP and AutoDome IP
Supported JPEG cameras from other manufacturers	For further information please contact Bosch Security Systems
Audio Inputs	2 (DB 06) or 4 (DB 12), cinch connector, line in signal, 16 KHz sampling rate
Audio Outputs	1, line out signal, 1/8" mini-plug (3,5 mm)
Alarm Inputs (NO / NC)	12 Switching voltage (high): >2 VDC Switching voltage (low): <0,5 VDC Input voltage: max. 40 VDC Impedance: 22 kOhm pull up (+5 V)
Malfunction relay output	1 Voltage range: 30 VAC - 40 VDC Switching current: max. 500 mA AC or DC Switching power: max. 10 VA
Relay Outputs (NO / NC)	12 Voltage range: 30 VAC - 40 VDC Switching current: max. 500 mA AC or DC Switching power: max. 10 VA
Spot monitor output	2 CVBS outputs for full screen or sequences from connected analog cameras
Bilinx control	For AutoDome control and Dinion camera configuration via coax
PTZ control	Bilinx: Via coax cable, up to 12 AutoDome units. Biphase: Up to 12 AutoDome units. RS 232: Protocols from Bosch, Panasonic, Pelco (D-Protocol), JVC, SAE are supported. RS 232: Via Console Port of any Allegiant matrix.
Storage capacity (internal hard disk)	120 GB, 250 GB, 400 GB (8 GB are needed for the operating system and video system software)
Video output	1x VGA
Ethernet	10/100/1000Base-T, bandwidth-limited
CPU	Intel Celeron® (min. 2,8 GHz)
RAM	512 MB
RS 232	1
USB 2.0	6
CD or DVD writer	Included (DVD-RW not in DB 06 C1 012 DL2 and DB 06 C1 012 D2) Supported medias: DVD-R, DVD+R
Power supply	100 / 240 VAC, 50 / 60 Hz (auto switch)
Typical power consumption	approx. 120 W
Power consumption	max. 140 W
Operating system	Microsoft Windows® XP Embedded
Web Browser	Microsoft Internet Explorer 6 or higher, on Windows 2000 or Windows® XP
Export of video/audio datas	DiBos-format or ASF-format on CD/DVD writer, USB-device or network drive
Image Printer	via USB (with Windows XP drivers)

Mechanical facilities

Dimensions (H x W x D)	11.5 x 48.0 x 43 cm (4.5 x 19 x 16,9 inch), also in 19 inch rack mountable
Weight	Approx. 11.5 kg (25 lb), dependent on model

Environmental conditions

Operating temperature	+5 °C to +40 °C (41 °F to 104 °F)
Storage temperature	-10 °C to +60 °C (-14 °F to 140 °F)
Relative humidity in operation	15% to 80%, no condensation
Relative humidity when stored	8% to 80%, no condensation
Electromagnetic Compatibility (EMC)	
• USA	FCC Part 15, Class B
• EU	EMC Directive 89/336/EEC Interference immunity: Conformance with EN 50130-4 requires an external UPS. The product is tested according to EN 50130-4, with the exception of voltage interruption to EN 50130-4:1995 Chapter 3/8/04. To comply with EN 50130-4, an external UPS is required. The UPS (Pulsar ellipse 500) is not included in the product and must be ordered separately. The UPS should be dimensioned for at least 480 VA. Interference emission: EN 55022, Class B Mains power fluctuations: EN 61000-3-2 Voltage fluctuations: EN 61000-3-3
Safety	
• USA	UL60950 Third edition (2000) CAN/CSA 22.2 No.60950-00, Third edition (2000)
• EU	EN 60950: 2000
Warranty	3 years
Approved anti virus software	Norton Anti Virus McAfee Virus Scan Trend Micro

Minumum requirements for computer with DiBos Micro receiver software/IP recorder (in brackets recommended requirements)

Operating system	Windows XP Professional
CPU	2 GHz, Pentium® 4 (3 GHz, Pentium® 4 with Hyper Threading)
RAM	512 MB (1024 MB)
VGA card (resolution)	1024 x 768, 32-Bit color depth (DirectX 9 Hardware Support, no shared memory)
USB-connector	for dongle

Windows® and Windows® XP, are registered trademarks of Microsoft Corporation.
Intel Pentium® and Celeron® are registered trademarks of Intel Corporation.

Ordering Information

DB 06 C1 012 DL2 DiBos Digital Video Recorder 6 channel DiBos Micro with 120 GB HDD, CD-RW, no IP devices.	DB06C1012DL2
DB 06 C1 012 D2 DiBos Digital Video Recorder 6 channel DiBos Micro with 120 GB HDD, CD-RW, 8 IP devices.	DB06C1012D2
DB 06 C1 025 D2 DiBos Digital Video Recorder 6 channel DiBos Micro with 250 GB HDD, DVD-RW, 8 IP devices.	DB06C1025D2
DB 06 C1 040 D2 DiBos Digital Video Recorder 6 channel DiBos Micro with 400 GB HDD, DVD-RW, 8 IP devices.	DB06C1040D2
DB 12 C2 025 D2 DiBos Digital Video Recorder 12 channel DiBos Micro with 250 GB HDD, DVD-RW, 8 IP devices.	DB12C2025D2
DB 12 C2 040 D2 DiBos Digital Video Recorder 12 channel DiBos Micro with 400 GB HDD, DVD-RW, 8 IP devices.	DB12C2040D2
Accessories	
DB EK 012 ES English Keyboard and Spanish Manuals	DBEK012ES
DB EK 012 FR French Keyboard and French Manuals	DBEK012FR
DB EK 061 SCSI Card Adapter and SCSI Cable Expansion. Included SCSI cable. DiBos Micro: Only for DB 06, due to required PCI slot. DiBos 19 inch: Not for DB 30 C5 100 R2 and DB 30 C5 160 R2, due to required PCI slot.	DBEK061
Software Options	
DB SE 031 Software Interface to Bosch Alarm Panels Connection via RS 232 to Bosch G Series, UGM 2020, UEZ 2000/1000, BZ 500, NZ/BZ 1060, NZ/BZ 1012, NZ 1008.	DBSE031
DB SR 002 Receiver Software DiBos receiver software for Win XP PC. Includes USB dongle. No recording of network cameras/network video encoder.	DBSR002
DB SR 002-5 Receiver Software, 5 pack DiBos receiver software for Win XP PC. Includes 5 USB dongles. No recording of network cameras/network video encoder.	DBSR002-5

Ordering Information

DB SR 162 Receiver Software/IP Recorder DiBos receiver software for Win XP PC. Includes USB dongle. Recording up to 16 network cameras/network video encoder.	DBSR162
DB SR 322 Receiver Software/IP Recorder DiBos receiver software for Win XP PC. Includes USB dongle. Recording up to 32 network cameras/network video encoder.	DBSR322

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone:+ 31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
http://www.boschsecurity.com

Americas:
Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone:+1 800 289 0096
Fax:+1 585 223 9180
security.sales@us.bosch.com
http://www.boschsecurity.us

Asia-Pacific:
Bosch Security Systems Pte Ltd
38C Jalan Pemimpin
Singapore 577180
Phone:+65 6319 3450
Fax:+65 6319 3499
apr.securitysystems@bosch.com
http://www.boschsecurity.com

Represented by

© Bosch Security Systems B.V. 2007 | Data subject to change without notice T4168630027 | Cur: en-US, V3, 2 May 2007